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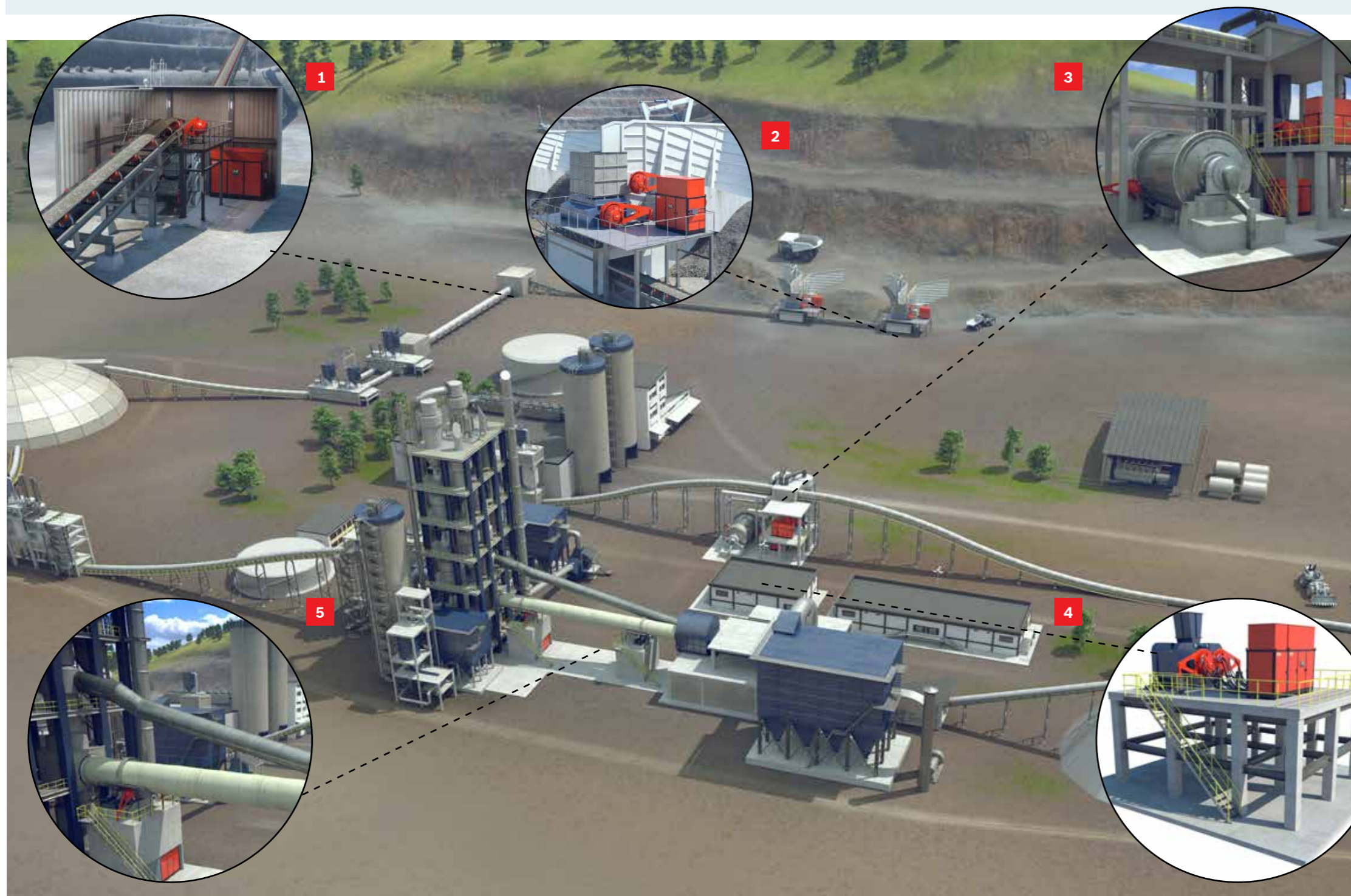
**Further information:**  
[www.boschrexroth.com/cement](http://www.boschrexroth.com/cement)

# Concrete advantages for the cement industry



# Benefits at every turn

Driving cement processes from start to finish



Whether transporting, heating or grinding your materials, working with cement takes a mix of force and finesse. In Hägglunds hydraulic direct drives, you'll find both. Our drive solutions supply reliable power with built-in overload protection, but also fine speed control and unbeatable flexibility. In applications throughout your cement plant, they safeguard uptime, productivity and the service life of your equipment.

#### 1. Belt Conveyors – drive system features

- ▶ Excellent torque control - protects the belt from overloads
- ▶ Soft starts and stops - keep belt stress to a minimum
- ▶ Low speeds can be used for easy inspection
- ▶ High starting torque for an unlimited period of time
- ▶ Startup in any load condition

#### 2. Apron feeders – drive system features

- ▶ High starting torque for an unlimited time
- ▶ Built-in protection against shock loads
- ▶ Easy handling of frequent starts and stops
- ▶ Variable speed - enabling process optimization

#### 3. Ball mills – drive system features

- ▶ Infinitely variable speed - optimized production process
- ▶ Low speed and high torque - enabling trouble free inching

#### 4. High pressure grinding roll – drive system features

- ▶ Low moment of inertia - accurate torque control
- ▶ Limited force between the rolls - less unground material
- ▶ Compact and modular system - easy maintenance
- ▶ Optimized grinding - less roll wear

#### 5. Kilns – drive system features

- ▶ High starting torque - startup in any load condition
- ▶ Full torque at low speed
- ▶ Perfect load sharing minimizes the wear - less need for maintenance
- ▶ High level of redundancy
- ▶ Compact design - space and weight saving

# The drive to build a better solution

## Hägglands drives from Bosch Rexroth

Hägglands hydraulic direct drives are a smart alternative to the electromechanical drive systems typically used in the cement industry. With no foundations, no gearboxes and no sensitive couplings, they offer flexibility and reliability beyond the ordinary. But they also deliver exceptional power, with control over speed and torque no other drive solution can match.

A direct drive system is based on one or more Hägglands hydraulic motors, which are mounted directly on the driven shaft. The force and direction of rotation is determined by fast-acting hydraulic pumps, which are located in a flexibly placed drive unit. Overseeing it all is a control and monitoring system, ensuring safe, smooth and optimized drive function.

### Drive benefits for the cement industry

#### ► Reliability

Reliability is key when a project will last for decades. Even if it operates just once or twice a year, the drive's function is critical when it does.

Hägglands drives have no gears or couplings to fail, nor are they sensitive to torque stresses. High starting torque can be sustained indefinitely, while effective torque limiting prevents damage from external forces.

#### ► Ease of installation

Compact and lightweight, Hägglands drives simplify design work and are easy to get in place. Because they often reduce installation weight by many tons, the lifting, maneuvering and securing all become easier.

#### ► Ease of maintenance

Hägglands drives have an intelligent, modular construction that facilitates maintenance work. All parts are standard, which makes them easy to obtain and install.

#### ► Modernization and upgrades

Because Hägglands drives are modular systems, everything can be ordered from stock – or even kept on hand. This allows fast and economical 1:1 replacement, not only of parts but of an entire drive if necessary.



# Ensuring performance

As experts on getting things going, Rexroth is a one-stop shop for system solutions and functionality for a wide range of applications all over the world. Our extensive portfolio of products ranging from advanced system solutions to high quality products helps our customers improve performance and optimize production – perfect for every step of the cement process.

Our commitment to bring excellent functionality doesn't stop at big solutions and entire processes. We have an entire portfolio of high quality products to bring you the extra functions needed for your specific processes, ranging from controls for level automation to filter cooling circuits.



# A global partner with local support



Service locations world-wide



Whether you need complete drive solutions or upgrades of existing equipment, you can always count on our assistance and support.

Our worldwide organization provides engineering, installation and service, regardless of geographical location. For you, that means quick and well-coordinated global support for quotations, installation and on-site service or assistance when needed.



We have extensive experience in the cement industry, where our solutions have been used for 40 years now. This long experience and our motivation to improve and develop our products and services, has given us an exceptional depth of knowledge and understanding of how to configure each function to get the best out of your process .

# Knowledge to build on Service to count on

Bosch Rexroth can draw on experience from cement applications worldwide, both in drive systems and beyond. By listening closely to your challenges and making full use of our knowledge, we bring you reliable, long-term solutions that minimize risk and maximize peace of mind.

### Service for peace of mind

Bosch Rexroth provides complete support through-out your drive system's life cycle. From Hägglunds original spare parts to expert field service and cutting-edge upgrades, everything you require for drive performance is available through our global organization. For full peace of mind, we can tailor the right mix of support and services in a performance agreement for your specific needs.

### Range of Rexroth Services for Machinery Applications and Engineering

	<b>Spare Parts</b>		<b>Preventive and Predictive Services</b>
	<b>Repairs</b>		<b>Retrofit and Modernization</b>
	<b>Field Service</b>		<b>Hägglunds Inside Intelligence</b>

### Detailed information

[www.boschrexroth.com/service/hagglunds](http://www.boschrexroth.com/service/hagglunds)

